

## **Student Master**

# **Research Project: Design Your Own Investigation**

### **Planning your project:**

- 1. Develop a research question. Then form a hypothesis to investigate.**

Be sure to review your hypothesis with your teacher before you begin.

**Research question:**

**Hypothesis:**

- 2. Design a plan to test your hypothesis and answer the research question.**

What do you need?

a) More information:

b) Specific data:

- 3. Go online and get the data.**

a) Visit [www.datainthe classroom.org](http://www.datainthe classroom.org), and find the El Niño module.

b) Follow the link to “Get Data.”

c) Using the form, select the data and parameters you wish to look at.

d) Click the “Get Data” button.

- 4. Use the Data Log Sheet to keep a record of the data you select, so you can refer to it later.**

- 5. Analyze the data.**

- 6. Draw conclusions.**

Write down what you learned from your investigation. Use your data to help you decide whether your hypothesis is supported. If your hypothesis is not supported, think about other data you might need to collect.

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### Data Log Sheet

As you use the online data access form to select data about El Niño, keep a record of the parameters you select on this data log sheet. Your data log will help you remember and keep track of the data you have looked at. Consider whether each new piece of data helps support or disprove your hypothesis.

| Data Set |  | Map/<br>Graph | Region | Date | Notes |
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